

SARDINE SYMPOSIUM 2000

MAY 23-25, 2000

Scripps Institute of Oceanography
9500 Gilman Drive
La Jolla, California

Sponsored by the Pacific States Marine Fisheries Commission, California Sea Grant, California Seafood Council, Scripps Institute of Oceanography, California Department of Fish and Game, and the National Marine Fisheries Service - Southwest Fisheries Science Center.

AGENDA

Tuesday, May 23, 2000

Sumner Auditorium
Scripps Institute

7:30-8:30 a.m.

Registration

Sumner Auditorium
Scripps Institute

8:30 a.m.

Welcome

Michael F. Tillman, Science Director
National Marine Fisheries Service - SW Region

8:45 a.m.

Workshop Purpose and Overview

Stephen Phillips
Pacific States Marine Fisheries Commission

9:00 a.m.

PLENARY SESSION

Session One:

Population Dynamics and Coast-Wide Surveys

Moderator:

John Hunter, National Marine Fisheries Service

9:00-9:25 a.m.

Coast-Wide Stock Assessment, Kevin Hill, California
Department of Fish and Game

9:25 - 10:30 a.m.

Stock Status Synopses Canada, Mexico, U.S.

- a. Sandy McFarlane, Department of Fisheries and Oceans, Canada
- b. *Status of the Sardine Fishery in Baja California*, Walterio Garcia, Pesca, Mexico
- c. *Coastal Hydroacoustic Surveys*, Virgilio Arenas, UNAM, Mexico



- 10:30 – 11:00 a.m. *Age Composition and Growth Rates from Coast-Wide Sampling Programs*, Kevin Hill* and John Butler, National Marine Fisheries Service
- 11:00 – 11:30 a.m. *Population Dynamics of Sardines in the Gulf of Mexico*, Miguel A. Cisneros, National Fisheries Institute, Mexico (Invited)
- 11:30 – 12:00 p.m. *Effects of Basin –Wide Ocean Climate Change on Sardine Productivity*, Tim Baumgartner, CICESE, Mexico
- 12:00 – 12:45 p.m. **Lunch** (Box Lunch - \$10.00—Order by Reservation)
- 12:45 – 1:15 p.m. *Spawning Habitat of Pacific Sardine Inferred From CUFES Surveys 1996-2000*, Dave Checkley Jr., Scripps
- 1:15 – 1:45 p.m. *Sardine Scales and Inter-annual Variation and abundance*, Daniel Lluch Belda, CIBNOR, Mexico (Invited)
- Cores from Effingham Inlet (West Coast Vancouver Island)*, Diego Holmgren, University of Washington
- 1:45 – 2:00 p.m. Session One Questions for Speakers
- Session Two** *Ecosystem Consequences and Sardine Population*
- Moderator: Gordon Swartzman, University of Washington
- 2:00 – 2:30 p.m. *Regime Shifts, Ecosystem Change and Sardines Off the West Coast of Canada*, Sandy McFarlane, Department of Fisheries and Oceans, Canada
- 2:30 – 3:00 p.m. *Effects on Zooplankton*, Mike Mullin, Scripps Institute of Oceanography
- 3:00 – 3:30 p.m. *Effects on Marine Mammals*, Bob DeLong, National Marine Fisheries Service
- 3:30 – 3:45 p.m. **Break**
- 3:45 – 4:15 p.m. *Effects on Birds*, Julia Parrish, University of Washington

* Presenter

- 4:15 – 5:05 p.m. *A) Variability of Small Pelagic Fishes in the California Current; B) Effects of Foraging Strategy on Catches of Northern Bluefin Tuna*, Ruben Rodriguez Sanchez*, D. Lluch Belda, H. Villalobos Ortiz, and S. Ortega Garcia CICIMAR, Mexico
- 5:05 – 5:20 p.m. Session Two Questions for Speakers
- 5:20 p.m. • Wrap-Up
 • Review Day 2 Activities and Logistics
- 5:30 p.m. Adjourn
- 5:30 – 7:00 p.m. Continuing Discussion & Social Hour
 Martin Johnson House
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Wednesday, May 24, 2000

8:00 a.m.

Sumner Auditorium
Scripps Institute

SESSION TWO (CONTINUED)

- 8:00 – 8:25 a.m. *Towards an Ecosystem Management Plan for the Northern California Current: The Role of Coastal Pelagic Species*, John Field*, Robert Francis and Lorenzo Ciannelli, University of Washington
- 8:25 – 8:50 a.m. *Sardines in the Ecosystem of the Pacific Northwest*, Ric Brodeur* Robert Emmett, Paul Bentley, National Marine Fisheries Service; Todd Miller, Oregon State University

PLENARY SESSION (CONTINUED)

Session Three:

Fishery Economics and Management

Moderator: Doyle Hanan, California Department of Fish and Game

- 8:50 – 9:15 a.m. *Overview of Coastal Pelagic Species Management Plan*, Doyle Hanan, California Department of Fish and Game

* Presenter

- 9:15 – 9:40 a.m. Canadian Sardine Management, Dennis Chalmers,
Department of Fisheries and Oceans, Canada
- 9:40 – 10:05 a.m. *Analysis of Sardine Markets*, Sam Herrick, National
Marine Fisheries Service
- 10:05 – 10:20 a.m. **Break**
- 10:20 – 11:30 a.m. *Fishing Industry Panel*
Jay Bornstein, Bornstein Seafood, Bellingham WA

Heather Munro, West Coast Seafood Processors
Association, Portland, OR

Don Pepper, Pacific Sardine Association, British
Columbia, Canada

Darrell Kapp, Bellingham, WA
- 11:30 – 12:30 p.m. Lunch (Box Lunch - \$10.00—Order by Reservation)

12:30– 5:00 p.m.

Breakout Group Sessions

Locations:

- **Scripps Institute**
9500 Gilman Drive
Sumner Auditorium and
Endurance Hall, Room 100
- **National Marine Fisheries Service**
Southwest Fisheries Science Center
8604 La Jolla Shores Drive, La Jolla
Large Conference Room

- *Population Dynamics and Coast-Wide Surveys*
Chair: John Hunter, National Marine Fisheries Service
- ▲ *Ecosystem Consequences*
Chair: Gordon Swartzman, University of Washington
- *Fishery/Economics and Management*
Chair: Doyle Hanan, California Department of Fish & Game

Thursday, May 25, 2000

**Sumner Auditorium
Scripps Institute
9500 Gilman Drive, La Jolla**

8:00 a.m. – 12:00 p.m.

Discussion of Small Group Findings
Develop Recommendations

ADJOURNMENT